Table 1. Third Grade Mathematics- Percentage of Students Likely to Show Mastery

	3rd Grade Mathematics	Legend	0-49% 50-74% 75-100%	Percentage of Students Likely to Show Mastery (For Various Percentile Ranks in the Arizona Ability Distribution				
Arizona College	e and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile
Geometry	AZ-3.G.A.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, at attributes (e.g., having four sides), and that the shared attributes can define a larger categor Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw e quadrilaterals that do not belong to any of these subcategories.	ory (e.g., quad		44%	49%	58%	66%	71%
	AZ-3.G.A.2 Partition shapes into parts with equal areas. Express the area of each part as a whole.	a unit fraction	of the	32%	39%	57%	78%	87%
	AZ-3.MD.A.1 Tell and write time to the nearest minute and measure time intervals in minute involving addition and subtraction of time intervals in minutes, e.g., by representing the prodiagram.			33%	40%	56%	74%	83%
	AZ-3.MD.A.2 Measure and estimate liquid volumes and masses of objects using standard kilograms (kg), and liters (l).1 Add, subtract, multiply, or divide to solve one-step word prob or volumes that are given in the same units, e.g., by using drawings (such as a beaker with to represent the problem.	lems involving	g masses	52%	60%	73%	83%	88%
	AZ-3.MD.B.3 Draw a scaled picture graph and a scaled bar graph to represent a data set v Solve one- and two-step "how many more" and "how many less" problems using informatio bar graphs.			35%	45%	71%	90%	95%
	AZ-3.MD.B.4 Generate measurement data by measuring lengths using rulers marked with inch. Show the data by making a line plot, where the horizontal scale is marked off in appronumbers, halves, or quarters.			26%	29%	41%	67%	82%
Measurement	AZ-3.MD.C.5 Recognize area as an attribute of plane figures and understand concepts of a A square with side length 1 unit, called "a unit square," is said to have "one square unit" of to measure area. (b) A plane figure which can be covered without gaps or overlaps by n un have an area of n square units.	area, and car	n be used	41%	47%	59%	72%	79%
and Data	AZ-3.MD.C.6 Measure areas by counting unit squares (square cm, square m, square in, sc units).	quare ft, and in	mprovised	55%	61%	71%	80%	84%
	AZ-3.MD.C.7a Find the area of a rectangle with whole-number side lengths by tiling it, and the same as would be found by multiplying the side lengths.	show that the	area is	64%	70%	79%	87%	90%
	AZ-3.MD.C.7b Multiply side lengths to find areas of rectangles with whole-number side len solving real world and mathematical problems, and represent whole-number products as remathematical reasoning.			25%	29%	38%	52%	62%
	AZ-3.MD.C.7c Use tiling to show in a concrete case that the area of a rectangle with whole and $b+c$ is the sum of $a \times b$ and $a \times c$. Use area models to represent the distributive proper reasoning.			31%	37%	54%	74%	83%
	AZ-3.MD.C.7d Recognize area as additive. Find areas of rectilinear figures by decomposin overlapping rectangles and adding the areas of the non-overlapping parts, applying this terworld problems.			34%	38%	49%	63%	72%
	AZ-3.MD.D.8 recognize perimeter as an attribute of plane figures and distinguish between measures: Solve real world and mathematical problems involving perimeters of polygons, i perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles perimeter and different areas or with the same area and different perimeters.	ncluding findi	ng the	36%	44%	62%	80%	88%
Number	AZ-3.NBT.A.1 Use place value understanding to round whole numbers to the nearest 10 or AZ-3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based		110	30%	35%	52%	74%	85%
Number and Operations in	properties of operations, and/or the relationship between addition and subtraction.			37%	45%	61%	78%	85%
Base 10	AZ-3.NBT.A.3 Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g. strategies based on place value and properties of operations.	., 9 × 80, 5 × 6	60) using	36%	46%	68%	86%	92%
	AZ-3.NF.A.1 Understand a fraction 1/b as the quantity formed by 1 part when a whole is paparts; understand a fraction a/b as the quantity formed by a parts of size 1/b.	artitioned into	b equal	63%	71%	82%	90%	93%
	AZ-3.NF.A.2a Represent a fraction 1/b on a number line diagram by defining the interval fr and partitioning it into b equal parts. Recognize that each part has size 1/b and that the en at 0 locates the number 1/b on the number line.			26%	27%	38%	71%	88%
	AZ-3.NF.A.2b Represent a fraction a/b on a number line diagram by marking off a lengths that the resulting interval has size a/b and that its endpoint locates the number a/b on the r		ecognize	36%	41%	56%	74%	83%
Numbers and Operations-	AZ-3.NF.A.3a Understand two fractions as equivalent (equal) if they are the same size, or number line.	the same poir	nt on a	18%	19%	26%	60%	84%
Fractions	AZ-3.NF.A.3b Recognize and generate simple equivalent fractions, e.g., $1/2 = 2/4$, $4/6 = 2/6$ fractions are equivalent, e.g., by using a visual fraction model.	3). Explain wh	ny the	52%	64%	80%	91%	94%
	AZ-3.NF.A.3c Express whole numbers as fractions, and recognize fractions that are equiva Examples: Express 3 in the form 3 = 3/1; recognize that 6/1 = 6; locate 4/4 and 1 at the sar line diagram.			20%	21%	23%	44%	74%
	AZ-3.NF.A.3d Compare two fractions with the same numerator or the same denominator by size. Recognize that comparisons are valid only when the two fractions refer to the same w of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visit	hole. Record	the results	52%	58%	70%	80%	85%
	AZ-3.OA.A.1 Interpret products of whole numbers, e.g., interpret 5×7 as the total number 7 objects each.	of objects in 5	groups of	52%	61%	76%	87%	92%
Operations and	AZ-3.OA.A.2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as a each share when 56 objects are partitioned equally into 8 shares, or as a number of shares partitioned into equal shares of 8 objects each.			30%	37%	56%	78%	87%
Algebraic Thinking	AZ-3.OA.A.3 Use multiplication and division within 100 to solve word problems in situation: groups, arrays, and measurement quantities, e.g., by using drawings and equations with a number to represent the problem.	symbol for the	e unknown	31%	39%	63%	86%	93%
	AZ-3.OA.A.4 Determine the unknown whole number in a multiplication or division equation relating three whole numbers.		whole	31%	38%	58%	78%	87%

Table 1. Third Grade Mathematics- Percentage of Students Likely to Show Mastery

	State Matternatics - 1 elcentage of students Likely to onow mastery								
	3rd Grade Mathematics	Legend	0-49% 50-74% 75-100%	Percentage of Students Likely to Show Mastery (For Various Percentile Ranks in the Arizona Ability Distribution					
Arizona College	e and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile	
	AZ-3.OA.B.5 Apply properties of operations as strategies to multiply and divide Students need not use formal terms for these properties.			33%	39%	56%	76%	85%	
	AZ-3.OA.B.6 Understand division as an unknown-factor problem.			31%	42%	66%	87%	93%	
	AZ-3.OA.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.			46%	57%	76%	89%	94%	
Thinking Cont.	AZ-3.OA.D.8 Solve two-step word problems using the four operations. Represent these pr with a letter standing for the unknown quantity. Assess the reasonableness of answers usi and estimation strategies including rounding.	nown quantity. Assess the reasonableness of answers using mental computation			28%	40%	63%	76%	
	AZ-3.OA.D.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations.			30%	36%	52%	72%	82%	

Table 2. Third Grade English Language Arts- Percentage of Students Likely to Show Mastery

Table 2. Third 0	Grade English Language Arts- Percentage of Students Likely to Show Mastery								
	3rd Grade English Language Arts	Legend	0-49% 50-74% 75-100%	Percentage of Students Likely to Show Mastery (For Various Percentile Ranks in the Arizona Ability Distribution					
Arizona College	e and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile	
	AZ-L.3.1 Conventions of Standard English: Demonstrate command of the conventions of stagrammar and usage when writing or speaking.	andard Engl	ish	44%	54%	73%	88%	93%	
	AZ-L.3.1a Conventions of Standard English: Explain the function of nouns, pronouns, verbs adverbs in general and their functions in particular sentences.	s, adjectives	, and	34%	40%	55%	73%	82%	
	AZ-L.3.1b Conventions of Standard English: Form and use regular and irregular plural nouns.		33%	40%	57%	75%	84%		
	AZ-L.3.1e Conventions of Standard English: Form and use the simple (e.g., I walked; I walk; I will walk) verb tenses.		40%	48%	64%	78%	85%		
	AZ-L.3.1f Conventions of Standard English: Ensure subject-verb and pronoun-antecedent a	agreement.		40%	50%	70%	85%	91%	
	AZ-L.3.1g Conventions of Standard English: Form and use comparative and superlative ad	jectives and	adverbs,	27%	30%	44%	71%	85%	
	and choose between them depending on what is to be modified.								
	AZ-L.3.1h Conventions of Standard English: Use coordinating and subordinating conjunction AZ-L.3.1i Conventions of Standard English: Produce simple, compound, and complex sentences.			30%	41% 46%	71% 64%	93% 81%	97% 88%	
	AZ-L.3.2 Conventions of Standard English: Demonstrate command of the conventions of standard English:		ish					87%	
	capitalization, punctuation, and spelling when writing.			38%	46%	63%	80%		
	AZ-L.3.2a Conventions of Standard English: Capitalize appropriate words in titles. AZ-L.3.2b Conventions of Standard English: Use commas in addresses.			33% 24%	38% 26%	51%	67%	76% 70%	
	AZ-L.3.2c Conventions of Standard English: Use commas and quotation marks in dialogue.			26%	29%			76%	
Language	AZ-L.3.2d Conventions of Standard English: Form and use possessives.			30%	35%	40% 62% 47% 62% 58% 74% 58% 74% 58% 66% 75% 88% 60% 71% 93% 57% 79% 41% 62%		71%	
Language	AZ-L.3.2e Conventions of Standard English: Use conventional spelling for high-frequency a and for adding suffixes to base words (e.g., sitting, smiled, cries, happiness).	and other stu	idied words	35%	42%			82%	
	AZ-L.3.2f Conventions of Standard English: Use spelling patterns and generalizations (e.g., word families, position-based spellings, syllable patterns, ending rules, meaningful word parts) in writing words.		44%	55%	75%	88%	93%		
	AZ-L.3.3a Knowledge of Language: Choose words and phrases for effect.			27%	30%	43%	66%	79%	
	AZ-L.3.4a Vocabulary Acquisition and Use: Use sentence-level context as a clue to the metabrase.	aning of a w	ord or	31%	41%	71%	93%	97%	
	AZ-L.3.4b Vocabulary Acquisition and Use: Determine the meaning of the new word formed added to a known word (e.g., agreeable/disagreeable, comfortable/uncomfortable, care/car			30%	37%	57%	79%	89%	
	AZ-L.3.4d Vocabulary Acquisition and Use: Use glossaries or beginning dictionaries, both p determine or clarify the precise meaning of key words and phrases.	orint and dig	ital, to	26%	29%	41%	62%	75%	
	AZ-L.3.5a Vocabulary Acquisition and Use: Distinguish the literal and nonliteral meanings of words and phrases in context (e.g., take steps).		29%	35%	51%	72%	82%		
	AZ-L.3.6 Vocabulary Acquisition and Use: Acquire and use accurately grade-appropriate or academic, and domain-specific words and phrases, including those that signal spatial and t (e.g., After dinner that night we went looking for them).			26%	29%	38%	53%	65%	
Reading: Foundational	AZ-RF.3.3a Phonics and Word Recognition: Identify and know the meaning of the most corderivational suffixes.	mmon prefix	es and	24%	27%	39%	70%	86%	
Skills	AZ-RF.3.3c Phonics and Word Recognition: Decode multisyllable words.			62%	72%	86%	94%	96%	
	AZ-RI.3.1 Key Ideas and Details: Ask and answer questions to demonstrate understanding explicitly to the text as the basis for the answers.	of a text, re	erring	30%	35%	52%	74%	84%	
	AZ-RI.3.10a Range of Reading and Level of Text Complexity: By the end of the year, read a functional texts, including history/social studies, science, and technical texts, at the high en complexity band independently and proficiently.			25%	28%	41%	63%	76%	
	AZ-RI.3.2 Key Ideas and Details: Determine the main idea of a text; recount the key details support the main idea.	and explain	how they	26%	31%	46%	68%	79%	
	AZ-RI.3.3 Key Ideas and Details: Describe the relationship between a series of historical exconcepts, or steps in technical procedures in a text, using language that pertains to time, so cause/effect.			28%	35%	55%	79%	88%	
Reading for Informational	AZ-RI.3.4 Craft and Structure: Determine the meaning of general academic and domain-spentases in a text relevant to a grade 3 topic or subject area.	ecific words	and	30%	37%	57%	80%	89%	
Text	AZ-RI.3.5 Craft and Structure: Use text features and search tools (e.g., key words, sidebars information relevant to a given topic efficiently.	s, hyperlinks) to locate	27%	32%	49%	73%	85%	
	AZ-RI.3.6 Craft and Structure: Distinguish their own point of view from that of the author of			35%	42%	59%	77%	85%	
	AZ-RI.3.7 Integration of Knowledge and Ideas: Use information gained from illustrations (e. and the words in a text to demonstrate understanding of the text (e.g., where, when, why, a occur).			39%	49%	68%	84%	90%	
	AZ-RI.3.8 Integration of Knowledge and Ideas: Describe the logical connection between pa paragraphs in a text (e.g., comparison, cause/effect, first/second/third in a sequence).	rticular sent	ences and	29%	34%	49%	70%	81%	
	AZ-RI.3.9 Integration of Knowledge and Ideas: Compare and contrast the most important puresented in two texts on the same topic.	oints and ke	y details	31%	34%	45%	63%	75%	
	AZ-RL.3.1 Key Ideas and Details: Ask and answer questions to demonstrate understanding explicitly to the text as the basis for the answers.	of a text, re	ferring	33%	42%	62%	82%	90%	
Reading for Literature	AZ-RL.3.2 Key Ideas and Details: Recount stories, including fables, folktales, and myths frod determine the central message, lesson, or moral and explain how it is conveyed through key			31%	39%	59%	81%	89%	
	AZ-RL.3.3 Key Ideas and Details: Describe characters in a story (e.g., their traits, motivatio explain how their actions contribute to the sequence of events.	ns, or feelin	gs) and	30%	37%	55%	76%	85%	

Table 2. Third Grade English Language Arts- Percentage of Students Likely to Show Mastery

			0-49%			toodooto I II. I	- Ob M - 1			
	3rd Grade English Language Arts		50-74%	Percentage of Students Likely to Show Mastery (For Various Percentile Ranks in the Arizona Ability Distribution)						
			75-100%	,		s in the Arizona Ability Distrib				
Arizona College	e and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile		95th Percentile		
	AZ-RL.3.4 (Use also L.3.4a & L.3.5a) Craft and Structure: Determine the meaning of words are used in a text, distinguishing literal from nonliteral language.	s and phrase	s as they	38%	46%	63%	79%	86%		
	AZ-RL.3.5 Craft and Structure: Refer to parts of stories, dramas, and poems when writing using terms such as chapter, scene, and stanza; describe how each successive part builds			36%	43%	59%	77%	85%		
Reading for iterature Cont.	AZ-RL.3.6 Craft and Structure: Distinguish their own point of view from that of the narrator or those of the characters.			34%	41%	57%	74%	82%		
	AZ-RL.3.7 Integration of Knowledge and Ideas: Explain how specific aspects of a text's illustrations contribute to what is conveyed by the words in a story (e.g., create mood, emphasize aspects of a character or setting).			52%	64%	81%	91%	95%		
	AZ-RL.3.9 Integration of Knowledge and Ideas: Compare and contrast the themes, setting written by the same author about the same or similar characters (e.g., in books from a seri-		of stories	35%	42%	59%	76%	84%		
	AZ-W.3.1a Text Types and Purposes: Introduce the topic or text they are writing about, state an opinion, and create an organizational structure that lists reasons.			30%	35%	45%	58%	67%		
	AZ-W.3.1b Text Types and Purposes: Provide reasons that support the opinion.	AZ-W.3.1b Text Types and Purposes: Provide reasons that support the opinion.			47%	65%	81%	88%		
	AZ-W.3.1c Text Types and Purposes: Use linking words and phrases (e.g., because, there to connect opinion and reasons.	-W.3.1c Text Types and Purposes: Use linking words and phrases (e.g., because, therefore, since, for example) connect opinion and reasons.				57%	80%	89%		
	AZ-W.3.1d Text Types and Purposes: Provide a concluding statement or section.			33%	39%	52%	68%	76%		
Writing	AZ-W.3.2a Text Types and Purposes: Introduce a topic and group related information toge illustrations when useful to aiding comprehension.	ether; include)	32%	38%	55%	74%	83%		
	AZ-W.3.2b Text Types and Purposes: Develop the topic with facts, definitions, and details	•		30%	35%	49%	66%	76%		
	AZ-W.3.2c Text Types and Purposes: Use linking words and phrases (e.g., also, another, connect ideas within categories of information.	and, more, b	ut) to	26%	31%	45%	65%	76%		
	AZ-W.3.2d Text Types and Purposes: Provide a concluding statement or section.			38%	44%	59%	74%	81%		
	AZ-W.3.8 Research to Build and Present Knowledge: Recall information from experiences from print and digital sources; take brief notes on sources and sort evidence into provided		formation	41%	51%	69%	84%	90%		

Table 3. Eighth Grade Mathematics- Percentage of Students Likely to Show Mastery

	8th Grade Mathematics	Legend	0-49% 50-74% 75-100%					
Arizona College	e and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile
	AZ-8.EE.A.1 Know and apply the properties of integer exponents to generate equivalent nur	merical expre	ssions.	30%	39%	63%	85%	93%
	AZ-8.EE.A.2 Use square root and cube root symbols to represent solutions to equations of t $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect square small perfect cubes. Know that SQRT2 is irrational.			27%	33%	51%	75%	86%
	AZ-8.EE.A.3 Use numbers expressed in the form of a single digit times an integer power of large or very small quantities, and to express how many times as much one is than the other		every	31%	39%	58%	78%	87%
	AZ-8.EE.A.4 Perform operations with numbers expressed in scientific notation, including prodecimal and scientific notation are used. Use scientific notation and choose units of approprime asurements of very large or very small quantities (e.g., use millimeters per year for seaflo Interpret scientific notation that has been generated by technology.	riate size for		27%	31%	41%	57%	67%
	AZ-8.EE.B.5 Graph proportional relationships, interpreting the unit rate as the slope of the g different proportional relationships represented in different ways.	graph. Compa	re two	37%	44%	59%	76%	83%
Expressions and Equations	AZ-8.EE.B.6 Use similar triangles to explain why the slope m is the same between any two overtical line in the coordinate plane; derive the equation $y = mx$ for a line through the origin $ax + b$ for a line intercepting the vertical axis at b.			27%	29%	37%	51% 67% 52% 64% 58% 55% 76%	63%
	AZ-8.EE.C.7 Solve linear equations in one variable.			34%	37%	49%	67%	78%
	AZ-8.EE.C.7a Give examples of linear equations in one variable with one solution, infinitely solutions. Show which of these possibilities is the case by successively transforming the giv simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a numbers).	en equation i	nto	26%	27%	33%	52% 64% 58% 55% 76%	69%
	8.EE.C.7b Solve linear equations with rational number coefficients, including equations whose solutions uire expanding expressions using the distributive property and collecting like terms.			23%	25%	36%	64%	81%
	AZ-8.EE.C.8a Understand that solutions to a system of two linear equations in two variables of intersection of their graphs, because points of intersection satisfy both equations simultar		o points	26%	30%	40%	58%	69%
	AZ-8.EE.C.8b Solve systems of two linear equations in two variables algebraically, and estingraphing the equations. Solve simple cases by inspection.	mate solution	s by	24%	27%	36%	55%	69%
	AZ-8.EE.C.8c Solve real-world and mathematical problems leading to two linear equations in	n two variable	es.	39%	46%	61%	76%	83%
	AZ-8.F.A.1 Understand that a function is a rule that assigns to each input exactly one output function is the set of ordered pairs consisting of an input and the corresponding output. (Fur required in Grade 8.)			29%	33%	48%	69%	81%
	AZ-8.F.A.2 Compare properties of two functions each represented in a different way (algebr numerically in tables, or by verbal descriptions).	aically, graph	ically,	29%	32%	43%	63%	75%
Functions	AZ-8.F.A.3 Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a examples of functions that are not linear.	straight line;	give	34%	41%	57%	75% 78% 57% 76% 51% 67% 52% 64% 58% 55% 76% 69% 63% 70% 86% 70% 86% 80% 73% 76% 72% 60% 60% 64% 64% 64% 63%	85%
	AZ-8.F.B.4 Construct a function to model a linear relationship between two quantities. Deter change and initial value of the function from a description of a relationship or from two (x, y) reading these from a table or from a graph. Interpret the rate of change and initial value of a terms of the situation it models, and in terms of its graph or a table of values.) values, inclu	ding	31%	36%	51%		80%
	AZ-8.F.B.5 Describe qualitatively the functional relationship between two quantities by analy where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exh features of a function that has been described verbally.			32%	37%	48%	62%	71%
	AZ-8.G.A.1 Verify experimentally the properties of rotations, reflections, and translations.			22%	24%	38%	70%	86%
	AZ-8.G.A.1a Lines are taken to lines, and line segments to line segments of the same length	h.		28%	34%	58%		94%
	AZ-8.G.A.1b Angles are taken to angles of the same measure.			47%	54%	68%		85%
	AZ-8.G.A.1c Parallel lines are taken to parallel lines. AZ-8.G.A.2 Understand that a two-dimensional figure is congruent to another if the second of the first by a sequence of rotations, reflections, and translations; given two congruent figure that exhibits the congruence between them.			37%	48%	61%	64% 58% 55% 76% 69% 63% 76% 70% 62% 70% 86% 80% 73% 76% 73%	80%
	AZ-8.G.A.3 Describe the effect of dilations, translations, rotations, and reflections on two-dir coordinates.	mensional fig	ures using	32%	38%	54%	73%	82%
Geometry	AZ-8.G.A.4 Understand that a two-dimensional figure is similar to another if the second can first by a sequence of rotations, reflections, translations, and dilations; given two similar two describe a sequence that exhibits the similarity between them.			27%	31%	48%	72%	84%
	AZ-8.G.A.5 Use informal arguments to establish facts about the angle sum and exterior ang the angles created when parallel lines are cut by a transversal, and the angle-angle criterior triangles.			31%	34%	43%	60%	71%
	AZ-8.G.B.6 Explain a proof of the Pythagorean Theorem and its converse.			30%	34%	44%	60%	71%
	AZ-8.G.B.7 Apply the Pythagorean Theorem to determine unknown side lengths in right trial mathematical problems in two and three dimensions.	ngles in real-	vorld and	23%	26%	42%	74%	89%
	AZ-8.G.B.8 Apply the Pythagorean Theorem to find the distance between two points in a co-	ordinate syste	em.	30%	33%	44%	64%	76%
	AZ-8.G.C.9 Know the formulas for the volumes of cones, cylinders, and spheres and use the and mathematical problems.	em to solve re	al-world	31%	35%	47%	63%	73%
The Number System	AZ-8.NS.A.1 Know that numbers that are not rational are called irrational. Understand inform has a decimal expansion; for rational numbers show that the decimal expansion repeats evedecimal expansion which repeats eventually into a rational number.	entually, and	convert a	29%	33%	43%	59%	70%
- , 0.0111	AZ-8.NS.A.2 Use rational approximations of irrational numbers to compare the size of irratio them approximately on a number line diagram, and estimate the value of expressions (e.g.,		locate	33%	43%	67%	87%	93%

Table 3. Eighth Grade Mathematics- Percentage of Students Likely to Show Mastery

	8th Grade Mathematics	Legend	0-49% 50-74% 75-100%			tudents Likely Ranks in the Ari		
Arizona Colleg	e and Career Ready Domain and Standard	5th 15th 50th 85th Percentile Percentile Percentile F				95th Percentile		
Statistics and Probability	AZ-8.SP.A.1 Construct and interpret scatter plots for bivariate measurement data to invest association between two quantities. Describe patterns such as clustering, outliers, positive linear association, and nonlinear association.	two quantities. Describe patterns such as clustering, outliers, positive or negative association,		52%	59%	70%	79%	84%
	AZ-8.SP.A.2 Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.			27%	30%	43%	69%	83%
Statistics and Probability	AZ-8.SP.A.3 Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept.		25%	27%	32%	42%	51%	
Cont.	2-8.SP.A.4 Understand that patterns of association can also be seen in bivariate categorical data by displaying equencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or lumns to describe possible association between the two variables.		32%	37%	52%	70%	79%	

Table 4. Eighth Grade English Language Arts- Percentage of Students Likely to Show Mastery

	8th Grade English Language Arts	Legend 50	49% -74% 100%		_	tudents Likely t Ranks in the Ari		-
Arizona Colleg	ge and Career Ready Domain and Standard			5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile
	AZ-L.8.1 Conventions of Standard English: Demonstrate command of the conventions of st grammar and usage when writing or speaking.	tandard English		43%	54%	74%	89%	94%
	AZ-L.8.1a Conventions of Standard English: Explain the function of verbals (gerunds, participles, infinitives) in general and their function in particular sentences.		32%	39%	58%	79%	87%	
	AZ-L.8.1b Conventions of Standard English: Form and use verbs in the active and passive voice.		36%	39%	46%	55%	60%	
	AZ-L.8.1c Conventions of Standard English: Form and use verbs in the indicative, imperati conditional, and subjunctive mood.	ive, interrogative,		54%	64%	78%	89%	93%
	AZ-L.8.2 Conventions of Standard English: Demonstrate command of the conventions of st capitalization, punctuation, and spelling when writing.	tandard English		26%	30%	42%	64%	77%
	AZ-L.8.2a Conventions of Standard English: Use punctuation (comma, ellipsis, dash) to inc	dicate a pause or	break.	30%	37%	54%	74%	84%
	AZ-L.8.2b Conventions of Standard English: Use an ellipsis to indicate an omission.			35%	39%	49%	63%	71%
	AZ-L.8.2c Conventions of Standard English: Spell correctly.			41%	47%	58%	70%	76%
Language	AZ-L.8.3 Knowledge of Language: Use knowledge of language and its conventions when w reading, or listening.	vriting, speaking,		35%	43%	61%	80%	88%
	AZ-L.8.4a Vocabulary Acquisition and Use: Use context (e.g., the overall meaning of a sen word's position or function in a sentence) as a clue to the meaning of a word or phrase.			30%	37%	58%	Percentile 89% 79% 55% 89% 64% 74% 63% 70%	88%
	AZ-L.8.4b Vocabulary Acquisition and Use: Use common, grade-appropriate Greek or Latin clues to the meaning of a word (e.g., precede, recede, secede).	n affixes and roots	s as	41%	50%	66%	81%	87%
	AZ-L.8.4c Vocabulary Acquisition and Use: Consult general and specialized reference mat glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determined or its part of speech.		naries,	34%	40%	58%	77%	85%
	AZ-L.8.5a Vocabulary Acquisition and Use: Interpret figures of speech (e.g. verbal irony, po	uns) in context.		36%	43%	57%	73%	81%
	AZ-L.8.5b Vocabulary Acquisition and Use: Use the relationship between particular words each of the words.	to better understa	nd	35%	42%	57%	75%	83%
	AZ-L.8.5c Vocabulary Acquisition and Use: Distinguish among the connotations (association similar denotations (definitions) (e.g., bullheaded, willful, firm, persistent, resolute).	ons) of words with	ı	35%	41%	57%	75%	84%
	AZ-L.8.6 Vocabulary Acquisition and Use: Acquire and use accurately grade-appropriate g domain-specific words and phrases; gather vocabulary knowledge when considering a wor comprehension or expression.			33%	37%	50%	67%	76%
	AZ-RI.8.1 Key Ideas and Details: Cite the textual evidence that most strongly supports an a says explicitly as well as inferences drawn from the text.	analysis of what th	ne text	36%	43%	60%	78%	85%
	AZ-RI.8.10a Range of Reading and Level of Text Complexity: By the end of the year, read informational and functional text, including history/social studies, science, and technical text complexity band independently and proficiently.	•		38%	45%	60%	75%	83%
	AZ-RI.8.2 Key Ideas and Details: Determine a central idea of a text and analyze its develop the text, including its relationship to supporting ideas; provide an objective summary of the		urse of	35%	41%	56%	67% 78% 75% 73% 80%	81%
	AZ-RI.8.3 Key Ideas and Details: Analyze how a text makes connections among and distinct individuals, ideas, or events (e.g., through comparisons, analogies, or categories).	ctions between		31%	38%	57%		89%
Reading for Informational Text	AZ-RI.8.4 Craft and Structure: Determine the meaning of words and phrases as they are us figurative, connotative, and technical meanings; analyze the impact of specific word choice including analogies or allusions to other texts.			33%	40%	56%	75%	84%
	AZ-RI.8.5 Craft and Structure: Analyze in detail the structure of a specific paragraph in a te particular sentences in developing and refining a key concept.	ext, including the r	ole of	36%	42%	56%	72%	79%
	AZ-RI.8.6 Craft and Structure: Determine an author's point of view or purpose in a text and acknowledges and responds to conflicting evidence or viewpoints.	I analyze how the	author	32%	38%	54%	71%	81%
	AZ-RI.8.8 Integration of Knowledge and Ideas: Delineate and evaluate the argument and s assessing whether the reasoning is sound and the evidence is relevant and sufficient; reco evidence is introduced.			31%	36%	50%	68%	77%
	AZ-RI.8.9 Integration of Knowledge and Ideas: Analyze a case in which two or more texts pinformation on the same topic and identify where the texts disagree on matters of fact or integration.			22%	23%	28%	48%	67%
	AZ-RL.8.1 Key Ideas and Details: Cite the textual evidence that most strongly supports an says explicitly as well as inferences drawn from the text.	analysis of what t	he text	31%	37%	52%	71%	81%
	AZ-RL.8.2 Key Ideas and Details: Determine a theme or central idea of a text and analyze the course of the text, including its relationship to the characters, setting, and plot; provide of the text.			34%	40%	54%	70%	79%
	AZ-RL.8.3 Key Ideas and Details: Analyze how particular lines of dialogue or incidents in a the action, reveal aspects of a character, or provoke a decision.	a story or drama p	ropel	30%	36%	57%	80%	89%
Reading for Literature	AZ-RL.8.4 Craft and Structure: Determine the meaning of words and phrases as they are u figurative and connotative meanings; analyze the impact of specific word choices on meani analogies or allusions to other texts.			30%	35%	51%	72%	82%
	AZ-RL.8.5 Craft and Structure: Compare and contrast the structure of two or more texts and differing structure of each text contributes to its meaning and style.	d analyze how the	e	33%	39%	52%	67%	76%
	AZ-RL.8.6 Craft and Structure: Analyze how differences in the points of view of the charact reader (e.g., created through the use of dramatic irony) create such effects as suspense or		ence or	37%	45%	63%	81%	88%
Writing	AZ-W.8.1a Text Types and Purposes: Introduce claim(s), acknowledge and distinguish the or opposing claims, and organize the reasons and evidence logically.	claim(s) from alte	ernate	29%	33%	44%	60%	70%

Table 4. Eighth Grade English Language Arts- Percentage of Students Likely to Show Mastery

	Totale English Early lage Arts-1 ercentage of oldderits Enterly to onlow mastery		0-49%						
	8th Grade English Language Arts		50-74%	Percentage of Students Likely to Show Mastery (For Various Percentile Ranks in the Arizona Ability Distribution)					
	on Grado Englion Edingaago / 11.0	Legend	75-100%	(For Vario	us Percentile F	Ranks in the Ari	zona Ability Dis	stribution)	
Arizona Colleg	ne and Career Ready Domain and Standard		10 10070	5th Percentile	15th Percentile	50th Percentile	85th Percentile	95th Percentile	
	AZ-W.8.1b Text Types and Purposes: Support claim(s) with logical reasoning and relevant accurate, credible sources and demonstrating an understanding of the topic or text.	t evidence, us	sing	27%	32%	47%	69%	81%	
	AZ-W.8.1c Text Types and Purposes: Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.			36%	42%	56%	71%	79%	
	AZ-W.8.1d Text Types and Purposes: Establish and maintain a formal style.			28%	33%	47%	67%	78%	
	AZ-W.8.1e Text Types and Purposes: Provide a concluding statement or section that follows from and supports the argument presented.				29%	43%	64%	77%	
	AZ-W.8.2a Text Types and Purposes: Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.			38%	44%	55%	68%	75%	
Writing Cont.	AZ-W.8.2b Text Types and Purposes: Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.			30%	36%	55%	77%	87%	
3	AZ-W.8.2c Text Types and Purposes: Use appropriate and varied transitions to create correlationships among ideas and concepts.				31%	47%	72%	85%	
	AZ-W.8.2d Text Types and Purposes: Use precise language and domain-specific vocabula explain the topic.	ary to inform a	about or	35%	41%	54%	69%	77%	
	AZ-W.8.2e Text Types and Purposes: Establish and maintain a formal style.			28%	31%	41%	59%	71%	
	AZ-W.8.2f Text Types and Purposes: Provide a concluding statement or section that follow information or explanation presented.	rovide a concluding statement or section that follows from and supports the			37%	48%	63%	71%	
	AZ-W.8.8 Research to Build and Present Knowledge: Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.			26%	29%	42%	67%	80%	